

Figure 1

# Genewriter - Oligonucleotide Pooling Plan

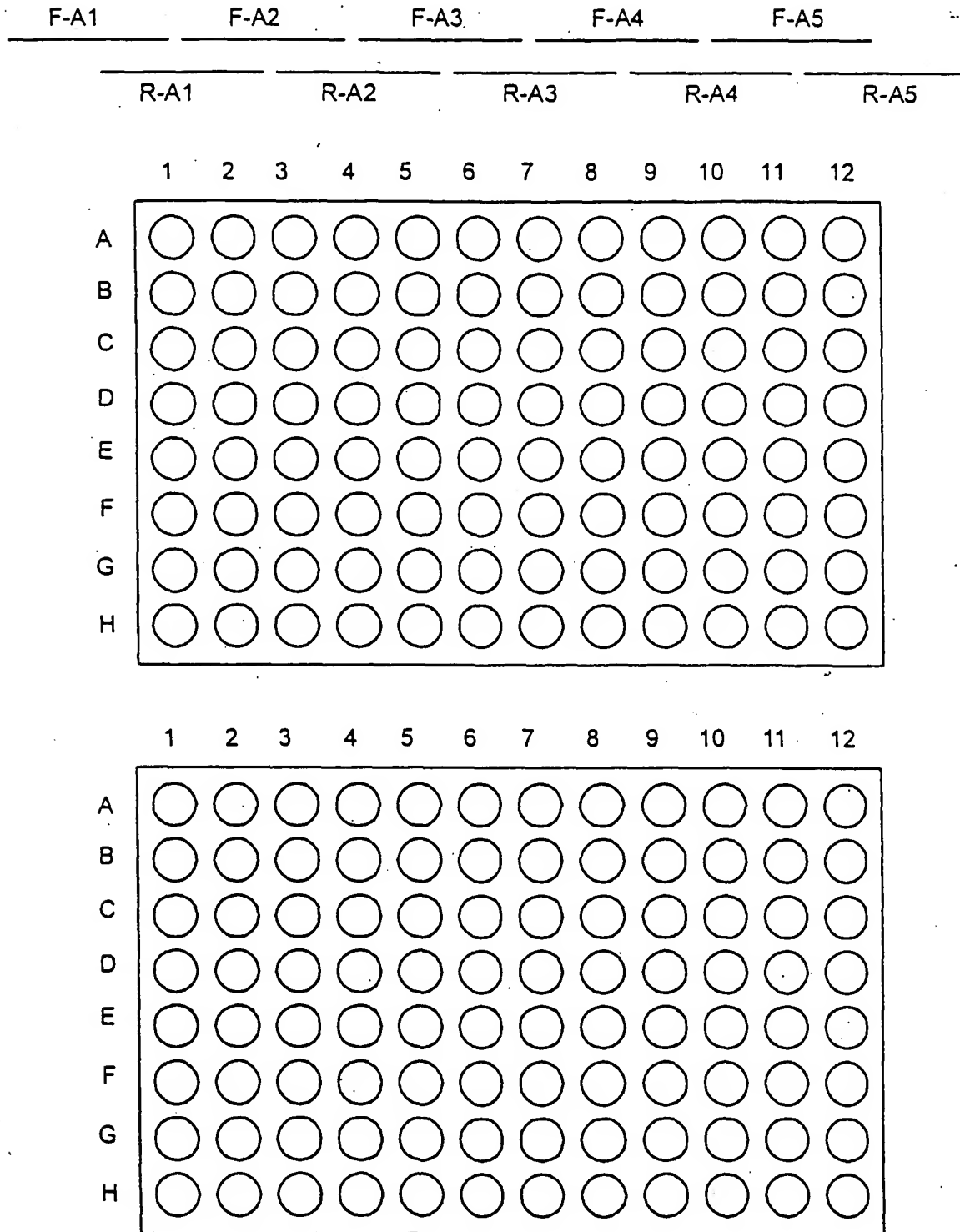


Figure 2

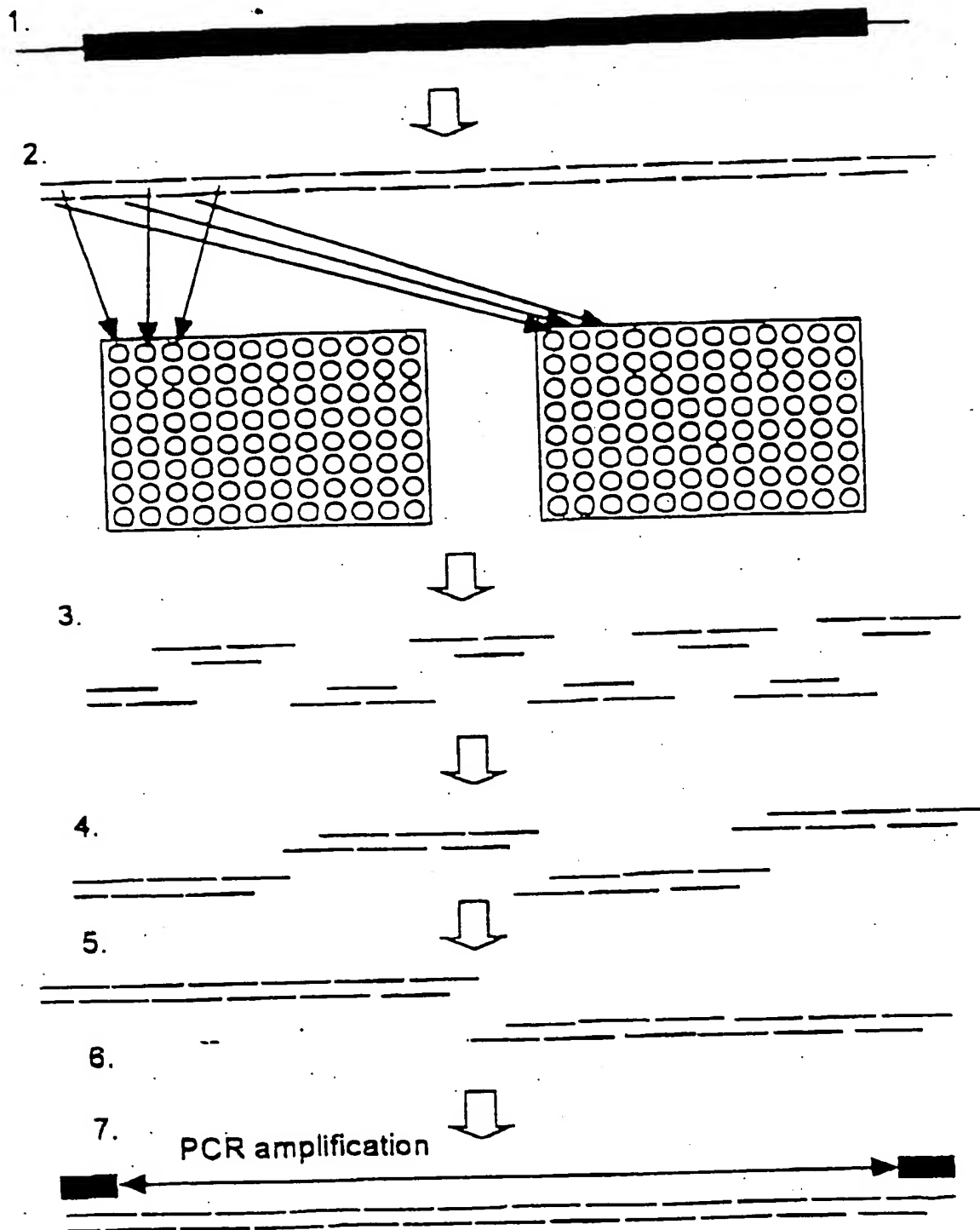


Figure 3

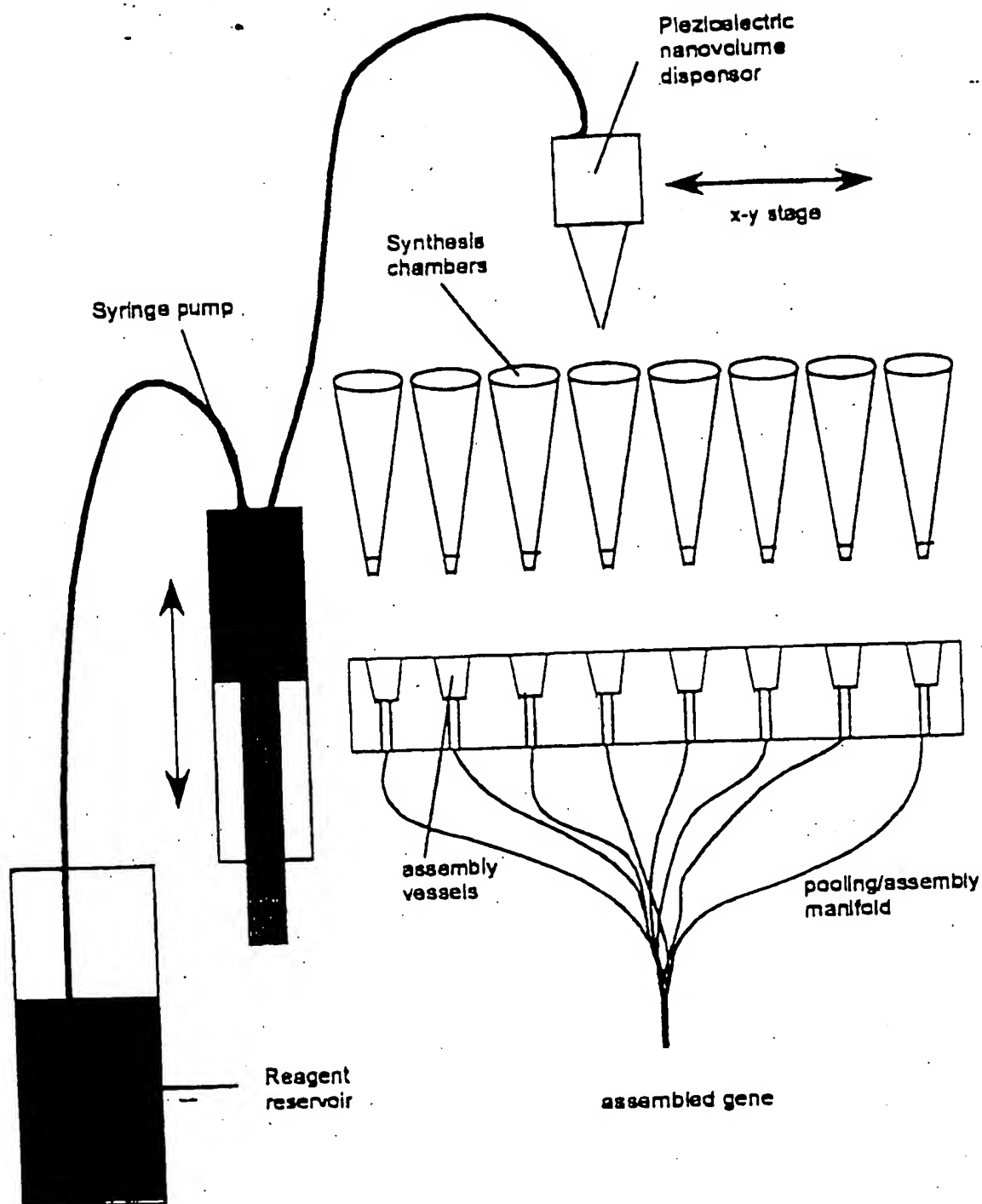


Figure 4

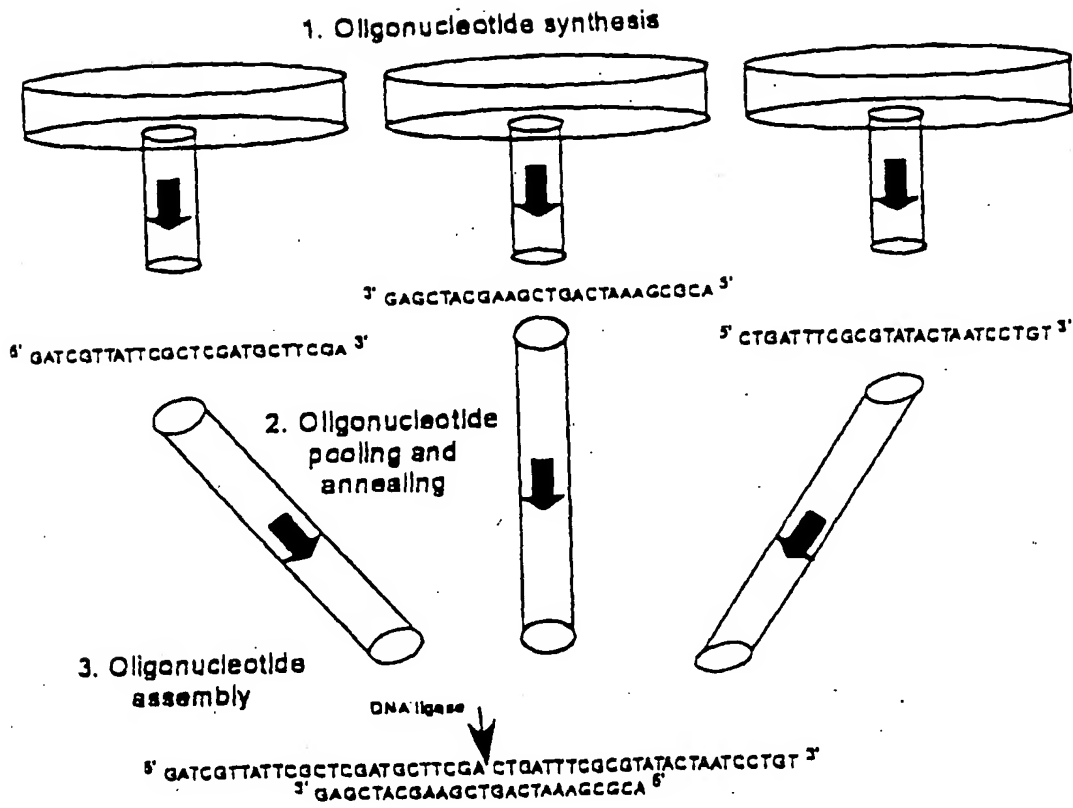


Figure 5

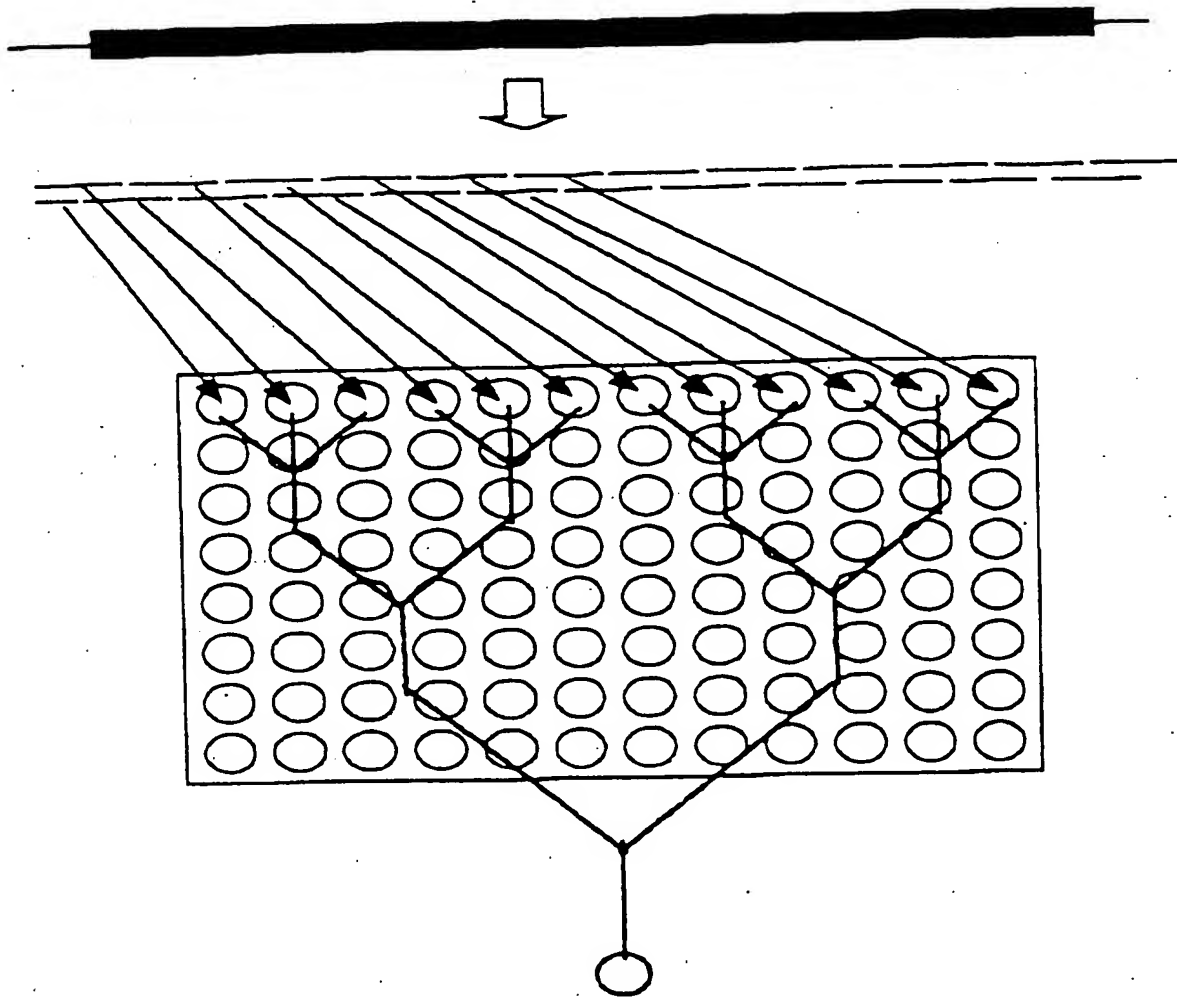


Figure 6

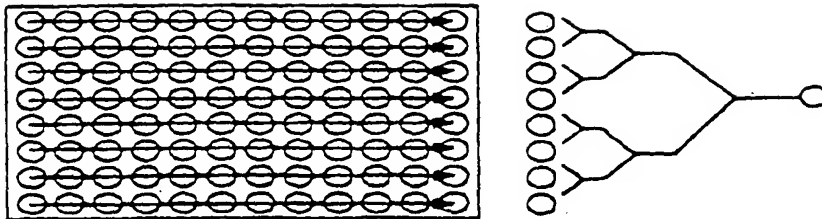


Figure 7

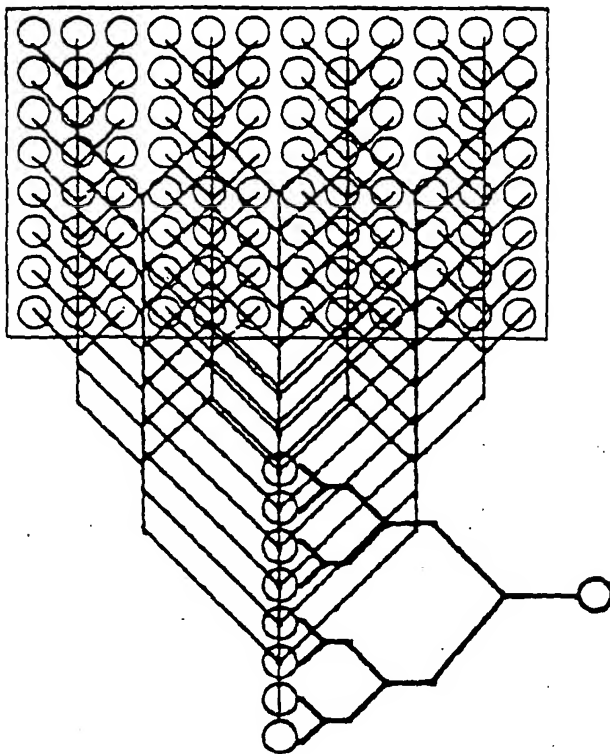


Figure 8

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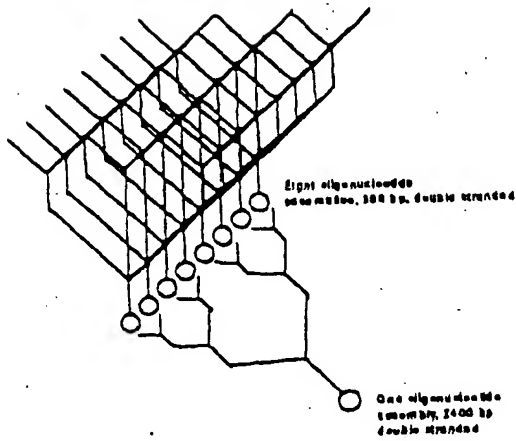
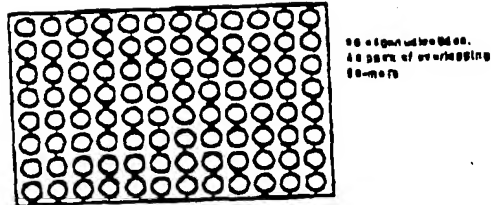


Figure 9



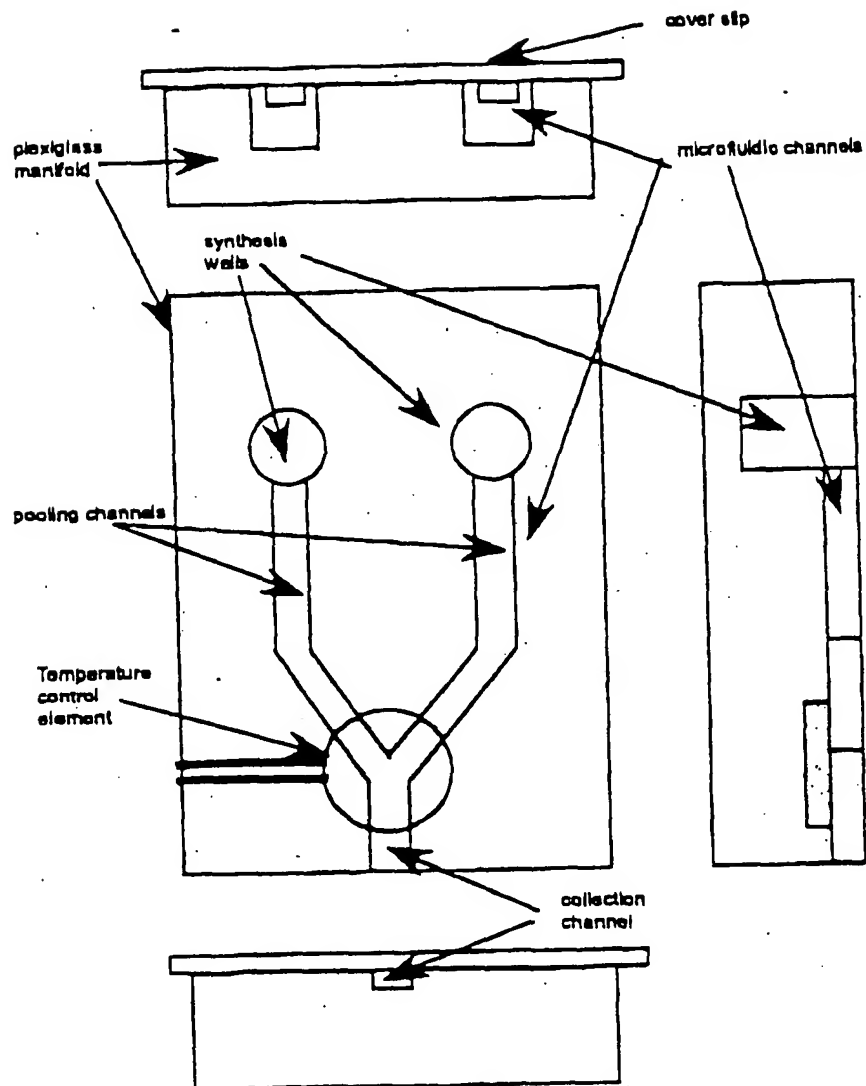


Figure 10

Genewriter Platform Design  
8 x 96 well plates addressed with 16 piezoelectric  
nanovolume dispense heads; One wash/dry station  
and one additional plate station. 8 plate evacuated by  
a single vacuum station.

Capacity of 8 x 96 = 768 oligos/run

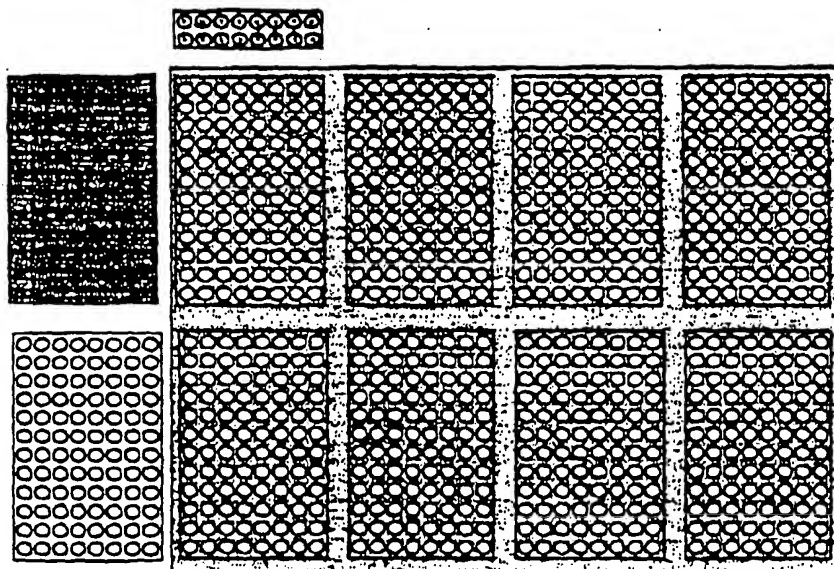


Figure 11

Genewriter Platform Design - High Capacity Mode  
8 x 1536 well microarray plates addressed with 16 piezoelectric  
nanovolume dispense heads; One wash/dry station  
and one additional plate station. 18 plates evacuated by  
a single vacuum station.

Capacity of 8 x 1536 = 12,288 oligos/run

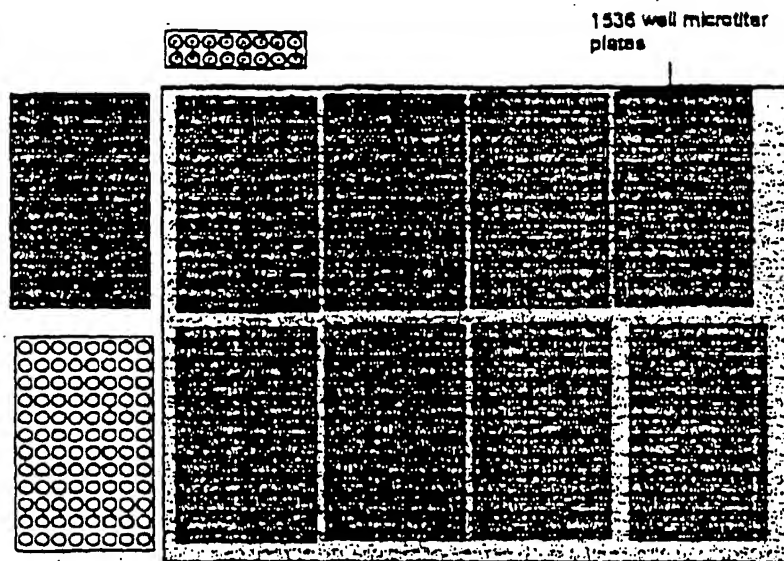


Figure 12

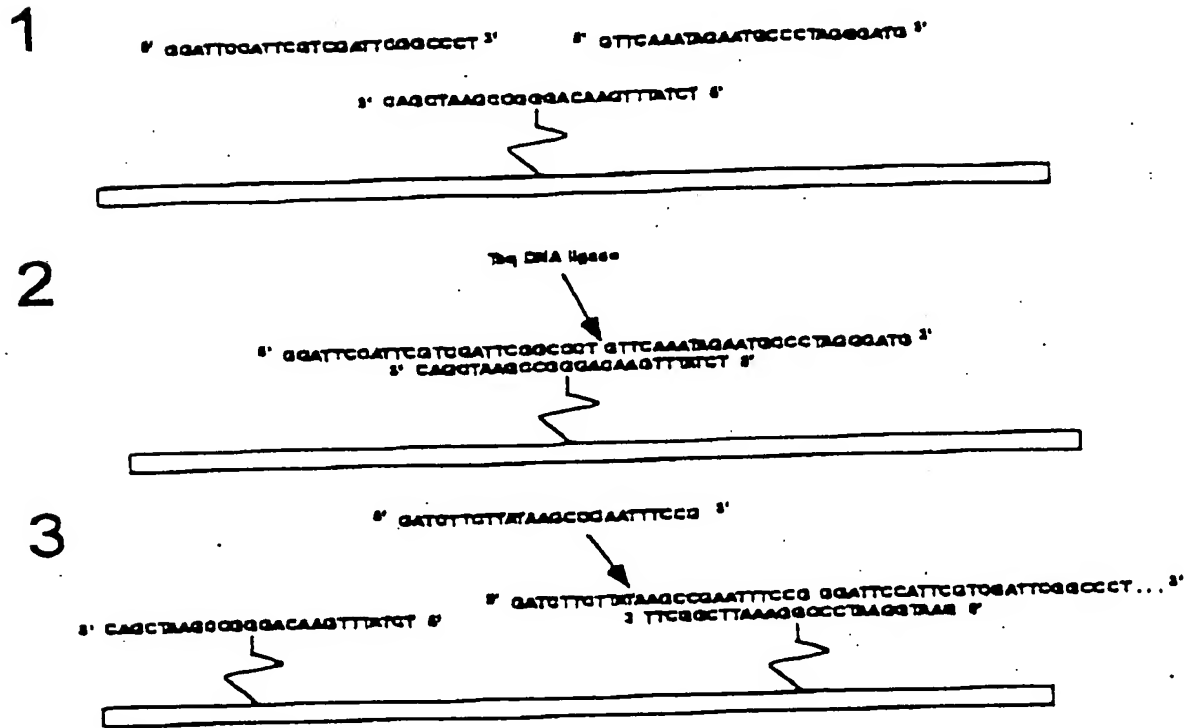


Figure 13

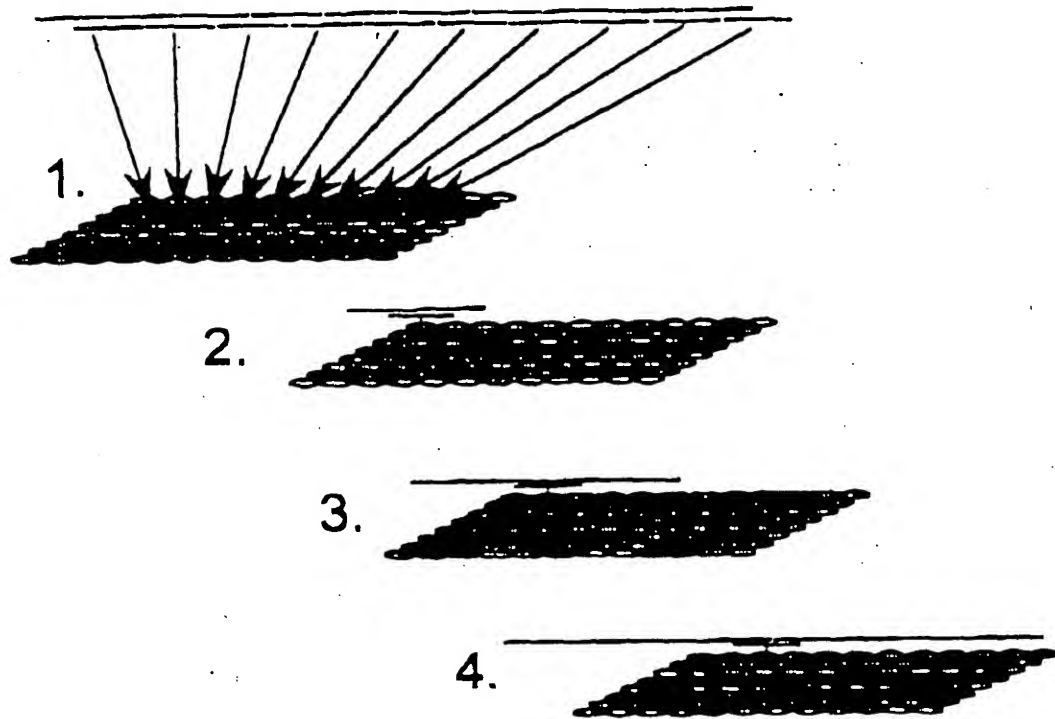


Figure 14

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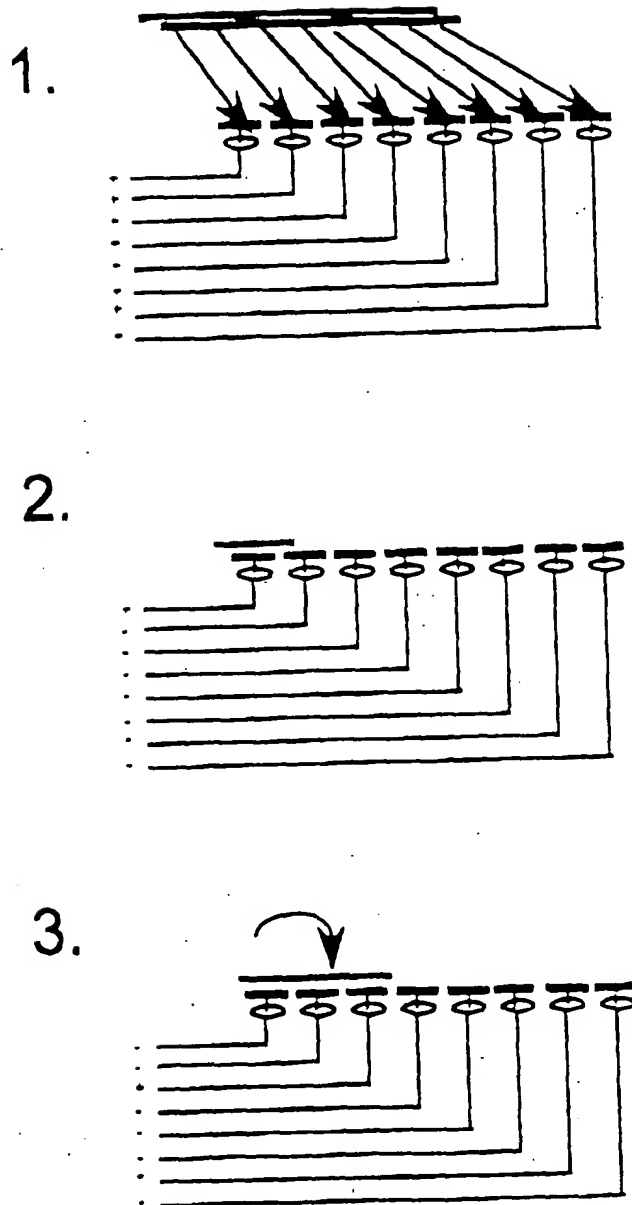


Figure 15

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Bidirectional primer extension strategy for gene assembly

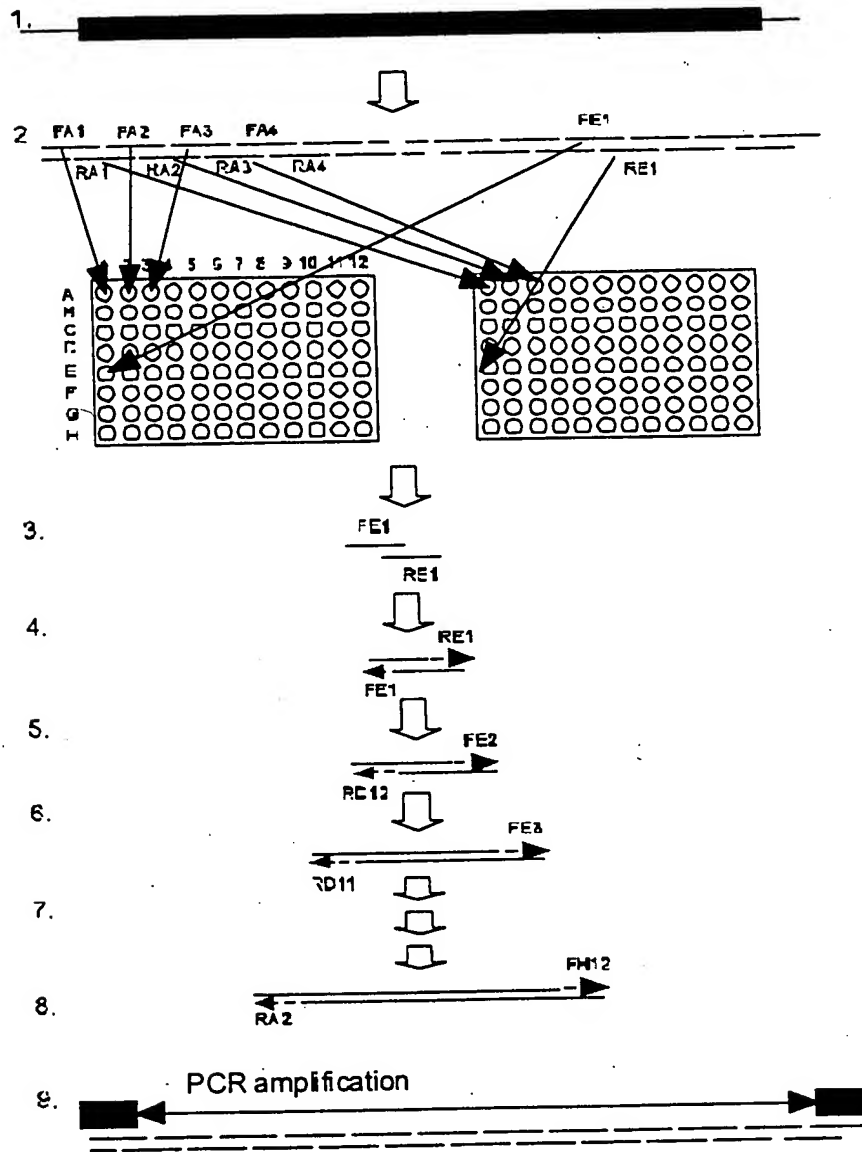


Figure 16

### System Diagram for Genewriter

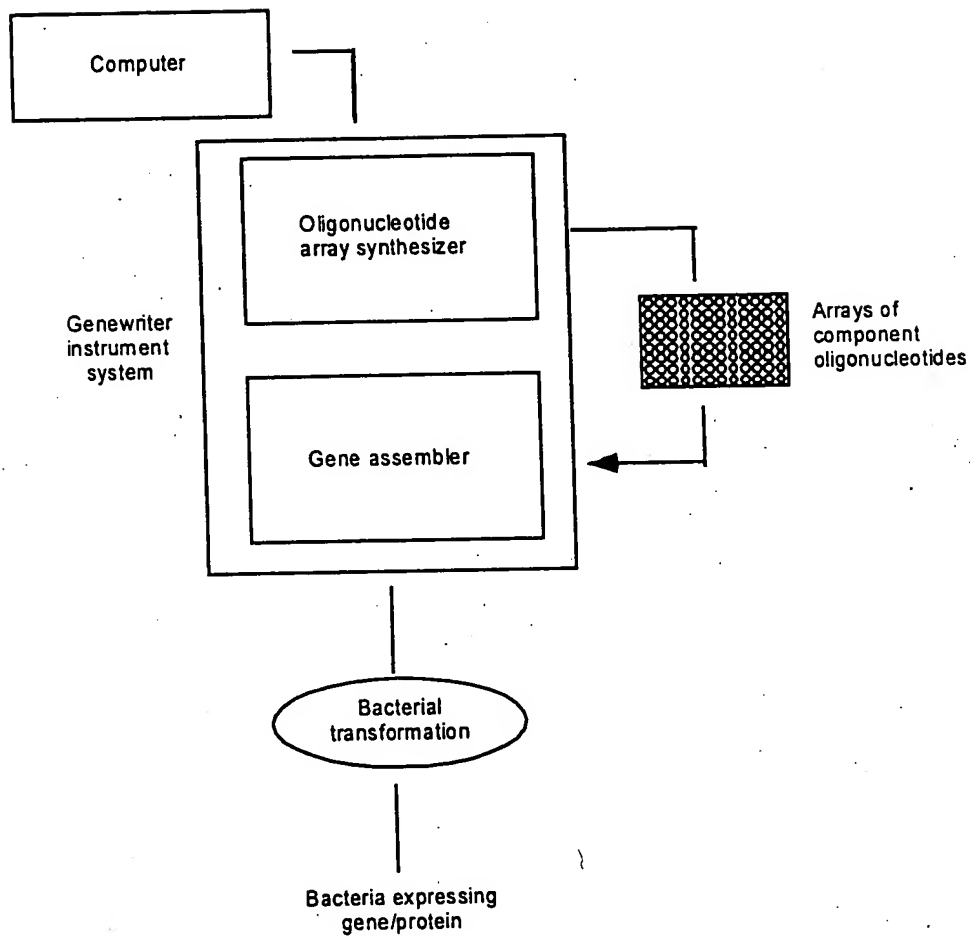


Figure 17



### Perspective view of Genewriter Instrument

#### Genewriter diagram

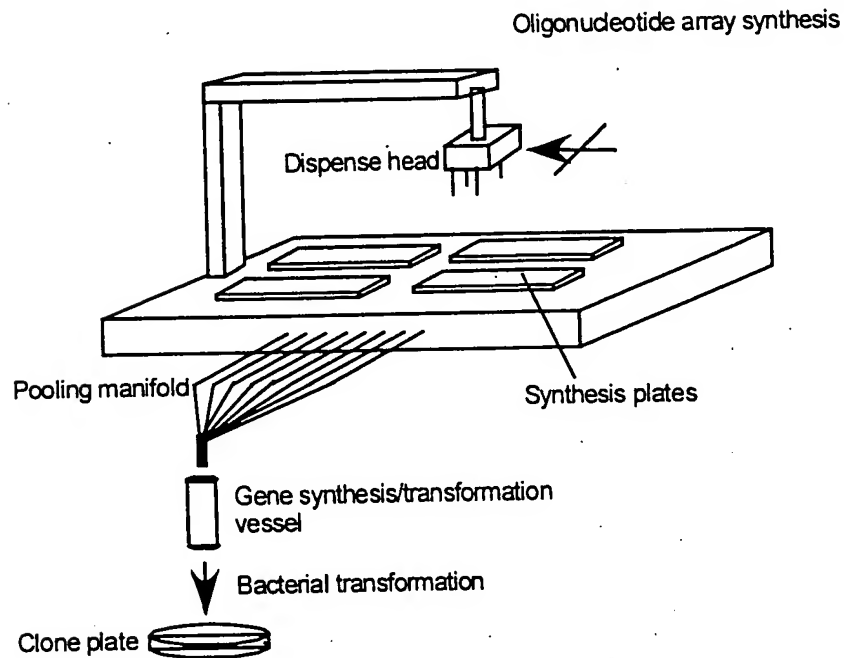


Figure 18

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